

FIG. 2

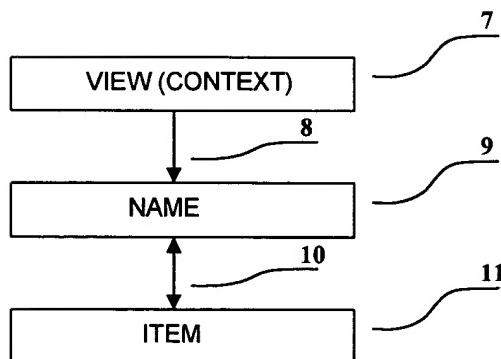


FIG. 3

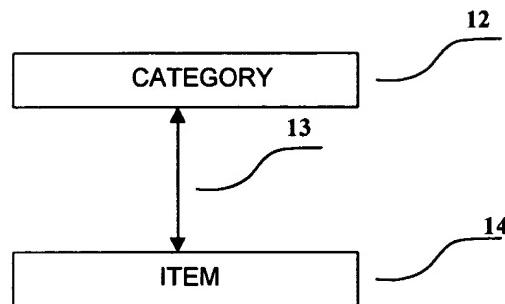


FIG. 4

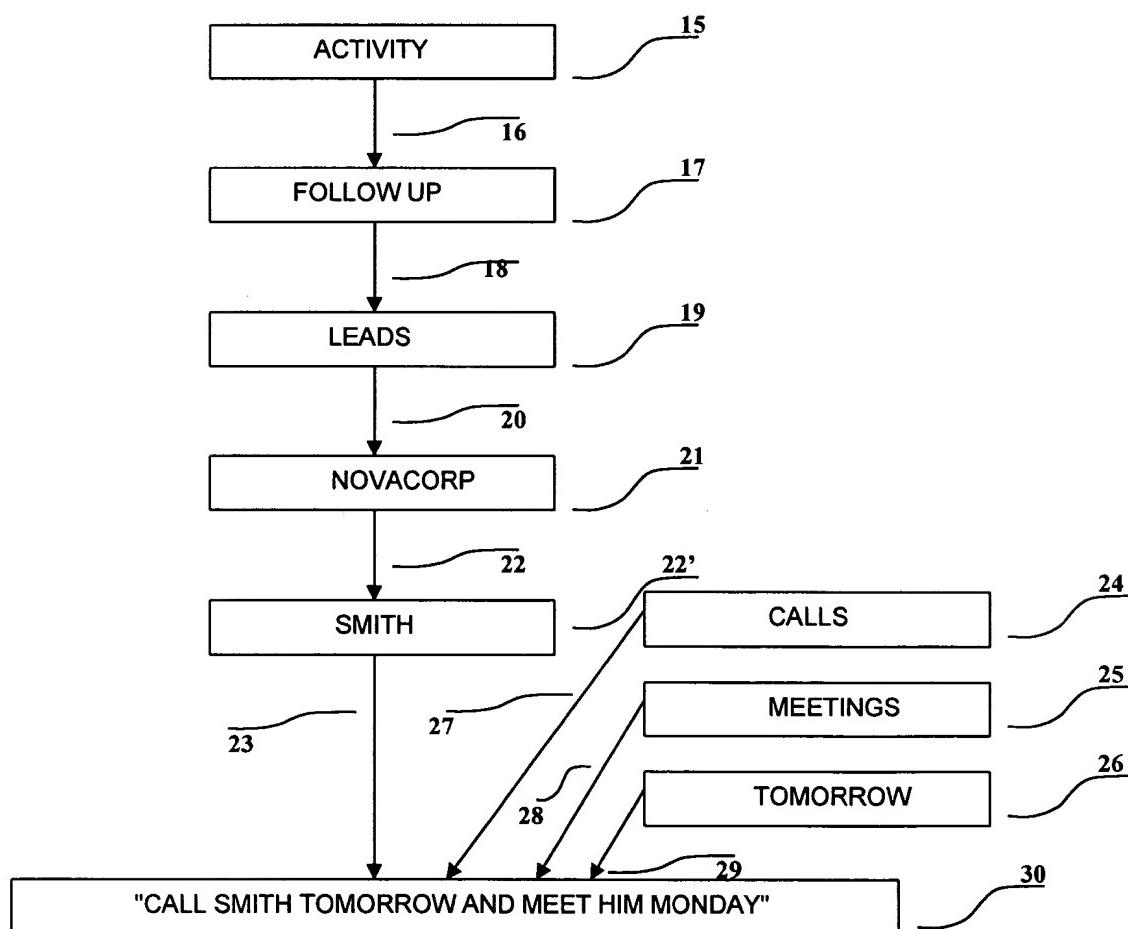


FIG. 5

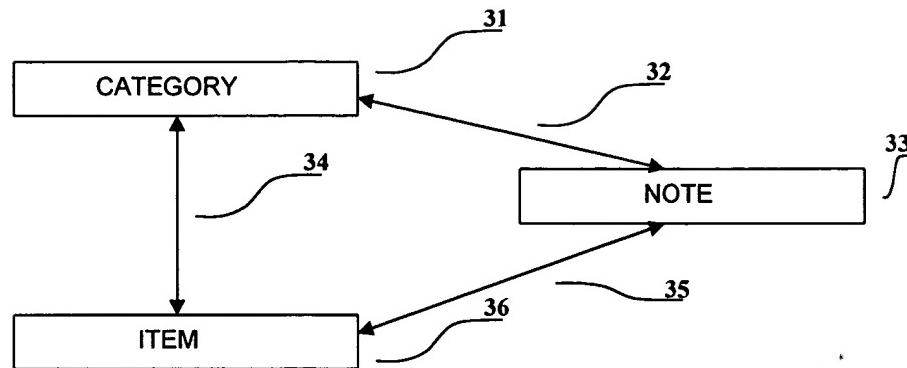


FIG. 6

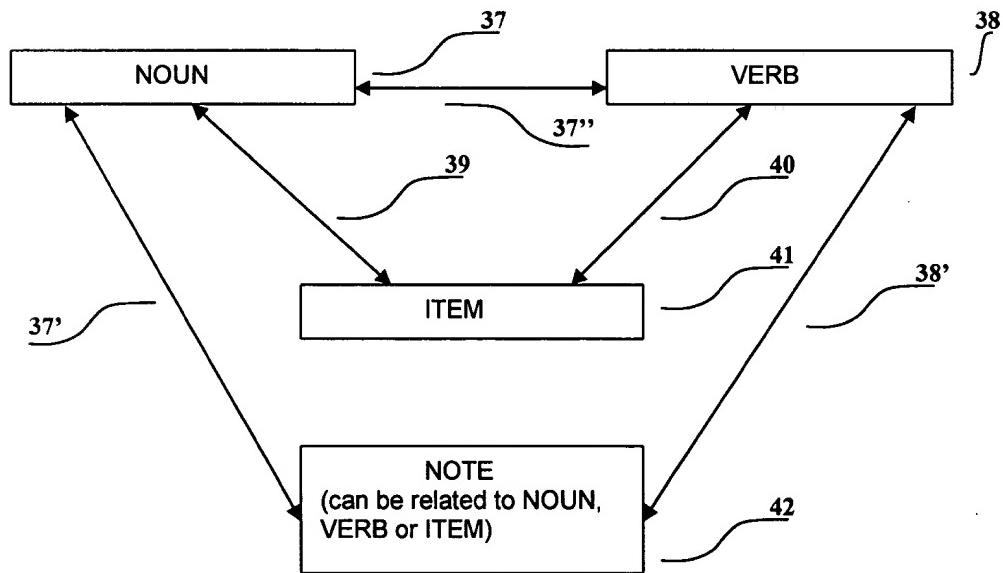


FIG. 7

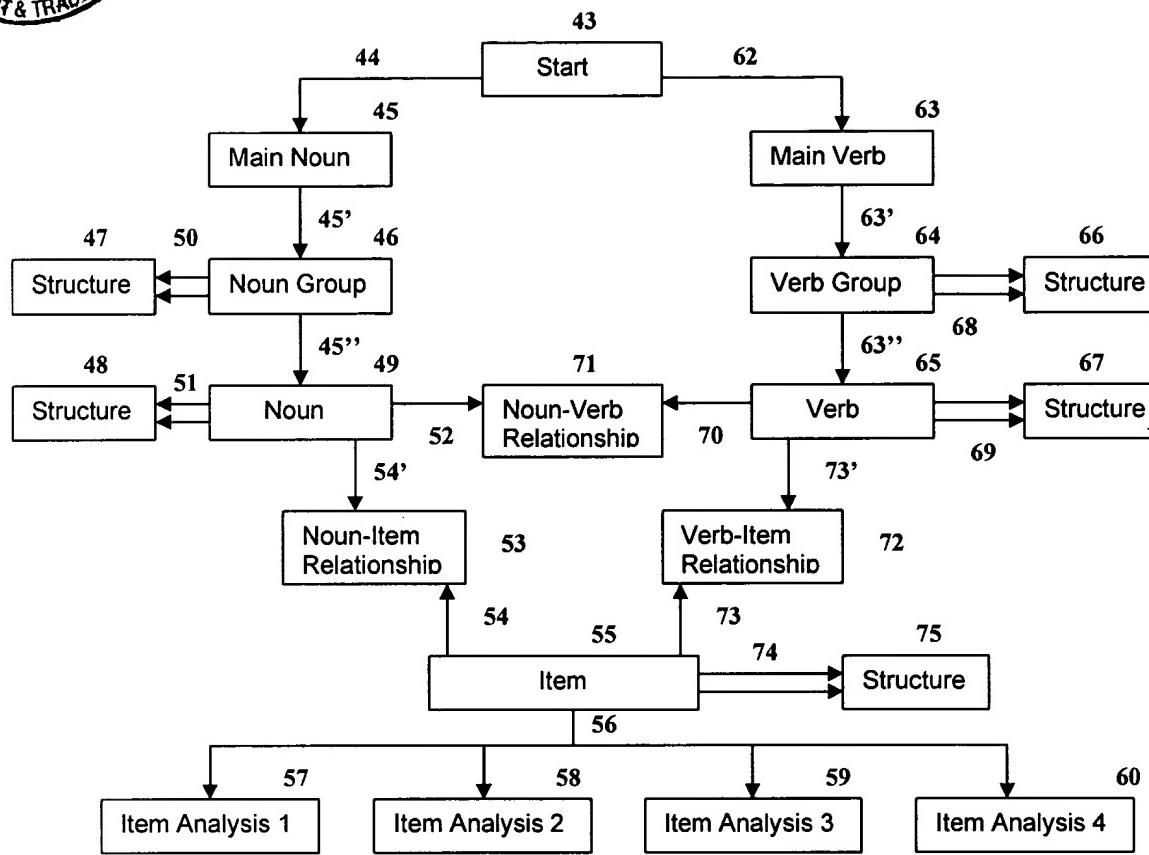


FIG. 8

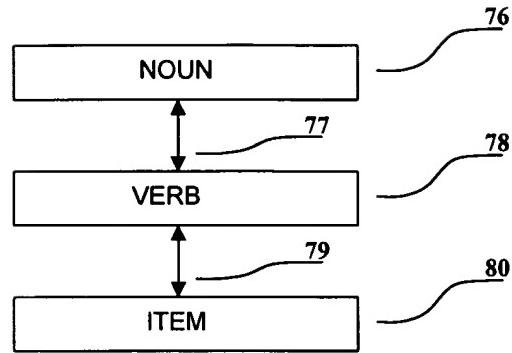


FIG. 9

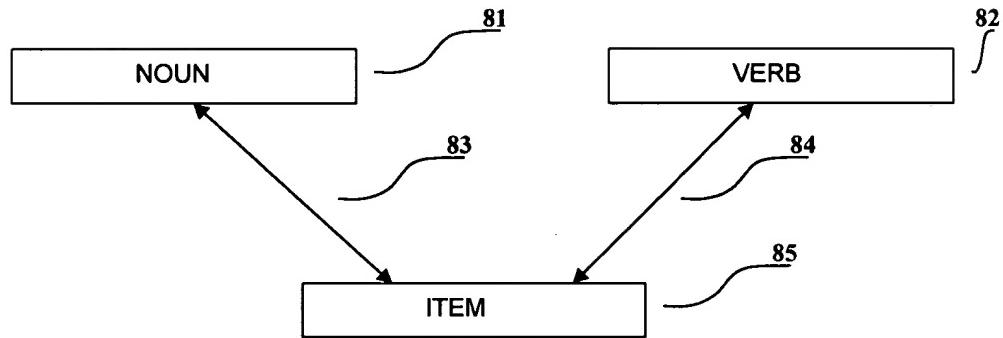


FIG. 10

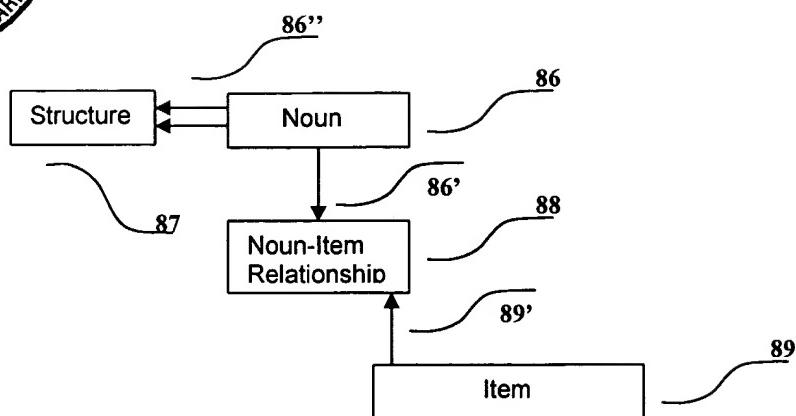


FIG. 11

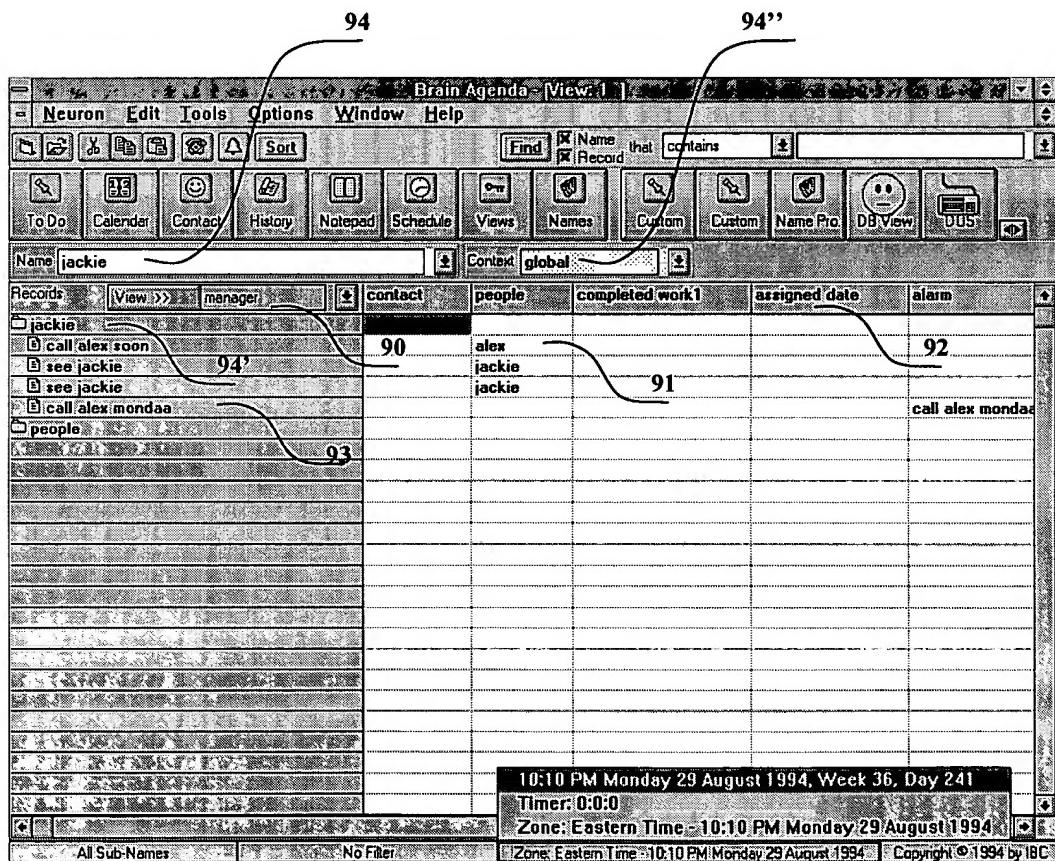


FIG. 12

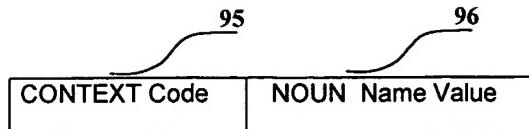


FIG. 13

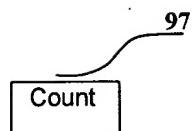


FIG. 14

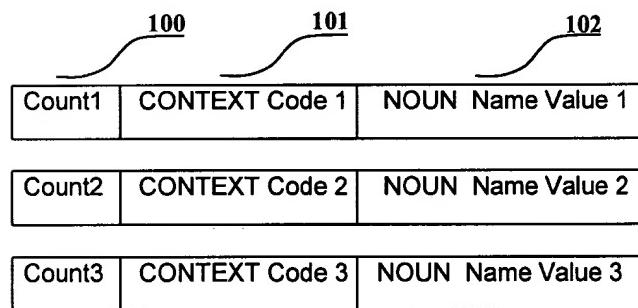


FIG. 15

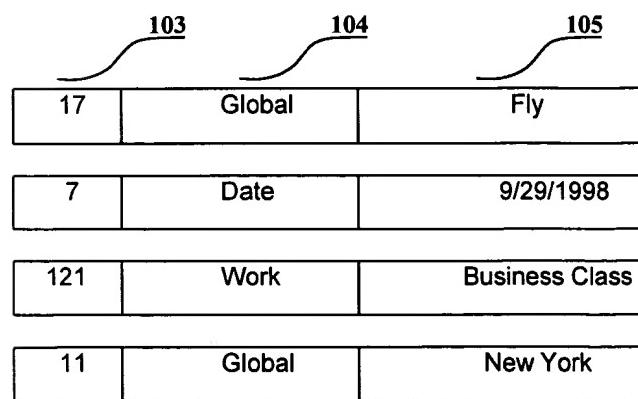


FIG. 16



RECEIVED

OCT 15 2004

Technology Center 2600

```
*****
/*
*/
/*
    BRAIN      Schema for the database BRAIN.
*/
/*
    Global schema for every neuron.
*/
/*
*/
/*
    /* Identityfication:
*/
/*
    1000-0-00-00-00
*/
/*
    ----- - - - - -      neuron    0001/.../1000
*/
/*
    portion    0/1/2
*/
/*
    relation   00/10/.../54
*/
/*
    release    1
*/
/*
    version    1
*/
/*
*/
/*
    Portion     1
*/
/*
    0          Abstraction
*/
/*
    1          Reality
*/
/*
    2          Abstraction-Reality
relation*/
/*
*/
/*
    Part       11      Noun+Data+Doc
*/
/*
    10         Noun
*/
/*
    14         Noun-Data
*/
/*
    15         Noun-Doc
*/
/*
    40         Data
*/
/*
    45         Data-Doc
*/
/*
    50         Doc
*/
/*
*/
/*
    Release    01
*/
*/
```

FIG. 17A



FIG. 17B



RECEIVED

OCT 15 2004

Technology Center 2600

```

        datar,
        datar_tabl;
data file "F100012.00" contains
/* 1000-0-11-00-00 */
        noun_datar,
        noun_str,
        noun_synonim,
        datar_str,
        action_before,
        action_after;

data file "F100019.00" contains
/* 1000-0-10-00-00 */
        brain,
/* 1000-0-50-00-00 */
        note;

key file "F100010.00K" contains
        noun.id;
key file "F100011.00K" contains
        datar.id;
key file "F100019.00K" contains
        note.id;
*****
/*
/* Sub-schema : BRAIN - NOUN
*/
/* Description : Noun (Parameter) part of BRAIN
*/
*****
/*
/* Record type : brain
*/
/* Description : Start of the NEURON 1000
*/
*****
record brain
{
    char          db_path [81];      /* Path to database      */
    char          db_name [81];     /* name of the db "brain" */
    struct
    {
        long       type_v;        /* noun type, view id   */
        char       kname_v [41];  /* noun 40B + 1B null termin */
        long       subtype_v;    /* noun subtype, def = 0 */
    } id_v;
    char       name_v [256];    /* */
    struct
    {
        long       type_n;        /* noun type, name id   */
        char       kname_n [41];  /* noun 40B + 1B null termin */
        long       subtype_n;   /* noun subtype, def = 0 */
        long       type2_n;      /* noun 2 type, def = 0 */
    }
}

```

FIG. 17C



RECEIVED

OCT 15 2004

Technology Center 2600

```

char      kname2_n [41];/* noun 40B + 1B null termin*/
long     subtype2_n; /* noun subtype, def = 0 */
} id_n;
char      name_n [256]; /*

*/
long      read_action; /* action on load */
long      next_1;    /* next available ??? */
long      next_2;    /* number for extention */
long      next_3;    /* noun ext.,noun definition*/
long      value_1;   /*
long      value_2;   /*
long      value_3;   /*
double   double_1;  /*
double   double_2;  /*
double   double_3;  /*
char     reserve_1[41]; /*
char     reserve_2[41]; /*
char     free[5001];  */

/*
/* Record type : noun
*/
/* Description : names (views,names,contexts)
*/
/*
record noun
{
unique key struct
{
long      type;      /* noun type, def = 0 */
char      kname [41]; /* noun 40B + 1B null termin*/
long     subtype;   /* noun subtype, def = 0 */
long      type2;    /* noun 2 type, def = 0 */
char      kname2 [41];/* noun 40B + 1B null termin*/
long     subtype2; /* noun subtype, def = 0 */
} id;
char      name[256]; /* 255+1 */

struct
{
long      type_p;    /* noun type, pair id */
char      kname_p [41]; /* noun 40B + 1B null termin*/
long     subtype_p; /* noun subtype, def = 0 */
} id_p;
long      cf;        /* certainty factor */
long      delete;   /*
long      joint_id; /* neuron||joint long */
long      read_action; /* action on read */
double   date_create; /*
double   date_when;  /*
double   date_done;  /*
double   date_start; /*
double   date_end;   /*
}

```

FIG. 17D

```

char      short_name [21];      /*          1B null termin*/
char      cat_type [11];        /*          1B null termin*/
char      exclusive [2];       /*          1B null termin*/
char      settings [41];      /*          1B null termin*/
long      layout_link;        /* type of layout for linked note*/
struct
{
    long      type_link;        /* link to extention which */
    char      kname_link [41];/* is in note */
    long      subtype_link;    /*reserve the range of notes*/
} id_link;
struct
{
    long      type_note;        /* note id           */
    char      kname_note [41];/* note name         */
    long      subtype_note;   /* note page         */
} id_note;
    long      position_note;   /*           in document/page */
    char      free_1 [101];
    char      free_2 [101];
    char      reserve_1[21];   /*3 sets person company */
    char      reserve_2[11];   /*          notes (commence) */
    char      reserve_3[11];   /*          notes (commence) */
}
*****
/*
/* Record type : datar
/* Description : records from Brain Agenda
*/
*****
/
record datar
{
    unique key struct
    {
        long      type;        /* data type, def = 0      */
        char      kname [41]; /* data 40B + 1B null termin*/
        long      subtype;    /* data subtype, def = 0    */
    } id;
    char      name[256]; /* 255+1           */
    long      cf;         /* certainty factor
*/
    long      delete;     /*          */
    long      joint_id;   /* neuron||joint      long
*/
    long      read_action; /* action on read      */
    double date_create; /*          */
    double date_when;  /*          */
    double date_done;  /*          */
    double date_start; /*          */
    double date_end;   /*          */
    char      settings [41]; /*          1B null termin*/
}

```

FIG. 17E



RECEIVED

OCT 15 2004

Technology Center 2600

```

long type_note;          /* note id */
char kname_note [41];    /* note name */
long subtype_note;       /* note page */
} id_note;
    long position_note;   /* in document/page */
    long long_1;          /*
    char reserve_1[11];   /*
    char reserve_2[11];   /*
    char reserve_3[11];   /*
    char reserve_4[11];   /*
}
*****
/
/* Record type : datar_tabl */ 
/* Description : data tables */
*/
*****
/
record datar_tabl
{
    long elem [120];      /* 120 elements */
    long cf;              /* certainty factor */
    long delete;          /*
    double date_create;  /*
    long read_action;    /* action on read */
    double double_1;      /*
    char reserve_1[11];   /*
    char reserve_2[21];   /*
}
*****
/
/* Record type : note */
*/
/* Description : notes (pages ) document */
*/
*****
/
record note
{
    unique key struct
    {
        long         from;      /* doc id +datar,-name,0-user */
        long         type;      /* from record or name */
        char        kname [41]; /* chapter||paragraph||verse */
        blank*/     long         subtype;   /* for user=0 */
        long         page_nr;   /* page nr */
    } id;
    char        name [256];  /*
    long         cf;        /* certainty factor */
    char        chapter [101]; /* left on page */
    char        chapter_1[101]; /* left on page */
    char        chapter_2[101]; /* left on page */
    char        chapter_3[101]; /* left on page */
}

```

FIG. 17F

RECEIVED

OCT 15 2004

Technology Center 2600

O I P E JC56
OCT 06 2004
PATENT & TRADEMARK OFFICE

```
char chapter_4[101]; /* left on page */
char chapter_5[101]; /* left on page */
char chapter_6[101]; /* left on page */
long verse; /* left on page */
char page [5001]; /* page 5001 */
long delete; /* */
long read_action; /* action on read */
char reserve_1 [11];
char reserve_2 [11];
char reserve_3 [11];
char reserve_4 [11];
}
*****
/*
/* Record type : noun_str
*/
/* Description : structure of the noun
*/
*****
record noun_str
{
    long cf; /* certainty factor */
    double date_create; /* */
    long read_action; /* action on read */
    double double_1; /* */
    char reserve_2[11]; /* */
    char reserve_3[11]; /* */
}
*****
/*
/* Record type : noun_datar
*/
/* Description : relation noun - datar */
*****
record noun_datar
{
    long cf; /* certainty factor */
    double date_create; /* */
    long read_action; /* action on read */
    double double_1; /* */
    char reserve_2[11]; /* */
    char reserve_3[11]; /* */
}
*****
/*
/* Record type : action before
*/
/* Description : must belong to the datar before being assigned to
*/
/*           the current datar */
*****
```

FIG. 17G



RECEIVED

OCT 15 2004

Technology Center 2000

```

record action_before
{
    long   cf;           /* certainty factor      */
    double date_create; /* */
    long   read_action; /* action on read      */
    double double_1;   /* */
    char   reserve_2[11];/* */
    char   reserve_3[11];/* */
}
//*********************************************************************
/*
/* Record type : noun action after
*/
/* Description : is assigned to noun after being assigned to
*/
/*                 the current noun
*/
//*********************************************************************
/
record action_after
{
    long   cf;           /* certainty factor      */
    double date_create; /* */
    long   read_action; /* action on read      */
    double double_1;   /* */
    char   reserve_2[11];/* */
    char   reserve_3[11];/* */
}
//*********************************************************************
/*
/* Record type : noun_synonim
*/
/* Description : all synonyms for a noun
*/
//*********************************************************************
/
record noun_synonim
{
    long   cf;           /* certainty factor      */
    double date_create; /* */
    long   read_action; /* action on read      */
    double double_1;   /* */
    char   reserve_2[11];/* */
    char   reserve_3[11];/* */
}
//*********************************************************************
/*
/* Record type : datar_str
*/
/* Description : structure of the datar
*/
//*********************************************************************
/
record datar_str

```

FIG. 17H

RECEIVED

OCT 15 2004

Technology Cen.



```
{  
    long    cf;           /* certainty factor */  
    double date_create;  /* */  
    long    read_action; /* action on read */  
    double double_1;     /* */  
    char    reserve_2[11];/* */  
    char    reserve_3[11];/* */  
}  
*****  
/  
/* Set type      : noun_set  
*/  
/* Description : Search path for noun  
*/  
*****  
/  
    set noun_set  
    {  
        order descending;  
        owner brain;  
        member noun by cf;  
    }  
*****  
/  
/* Set type      : datar set  
*/  
/* Description : Search path for datar record  
*/  
*****  
/  
    set datar_set  
    {  
        order descending;  
        owner noun;  
        member noun_datar by cf;  
    }  
*****  
/  
/* Set type      : datar_noun set  
*/  
/* Description : Search path for noun from datar  
*/  
*****  
/  
    set datar_noun_set  
    {  
        order descending;  
        owner datar;  
        member noun_datar by cf;  
    }  
*****  
/  
/* Set type      : noun_synonim_exp_set  
*/
```

FIG. 17I



RECEIVED

OCT 15 2004

Technology Center 2600

```
/* Description : Search path for noun synonim explosion
*/
/*****
*/
    set noun_synomim_exp_set
    {
        order descending;
        owner noun;
        member noun_synomim by cf;
    }
/*****
*/
/* Set type      : noun_synomim_imp_set
*/
/* Description : Search path for noun synonim implosion
*/
/*****
*/
    set noun_synomim_imp_set
    {
        order descending;
        owner noun;
        member noun_synomim by cf;
    }
/*****
*/
/* Set type      : noun_exp_set
*/
/* Description : Search path for noun explosion
*/
/*****
*/
    set noun_exp_set
    {
        order descending;
        owner noun;
        member noun_str by cf;
    }
/*****
*/
/* Set type      : noun_imp_set
*/
/* Description : Search path for noun record from noun_str
*/
/*****
*/
    set noun_imp_set
    {
        order descending;
        owner noun;
        member noun_str by cf;
    }
/*****
```

FIG. 17J



```
/* Set type      : datar_exp_set
*/
/* Description : Search path for datar explosion
*/
/*****
*
    set datar_exp_set
    {
        order descending;
        owner datar;
        member datar_str by cf;
    }
/*****
/
/* Set type      : datar_imp_set
*/
/* Description : Search path for datar record from datar_str
*/
/*****
*
    set datar_imp_set
    {
        order descending;
        owner datar;
        member datar_str by cf;
    }
/*****
/
/* Set type      : action_before_exp set
*/
/* Description : Search path for action_before from noun
*/
/*****
*
    set action_before_exp_set
    {
        order descending;
        owner noun;
        member action_before by cf;
    }
/*****
/
/* Set type      : action_before_imp set
*/
/* Description : Search path for action_before from noun
*/
/*****
*
    set action_before_imp_set
    {
        order descending;
        owner noun;
        member action_before by cf;
    }
```

FIG. 17K



RECEIVED

OCT 15 2004

Technology Center 2600

```
*****
/*
/* Set type      : action_after_exp set
*/
/* Description : Search path for action_after from noun
*/
*****
/
    set action_after_exp_set
    {
        order descending;
        owner noun;
        member action_after by cf;
    }
*****
/
/* Set type      : action_after_imp set
*/
/* Description : Search path for action_after from noun
*/
*****
/
    set action_after_imp_set
    {
        order descending;
        owner noun;
        member action_after by cf;
    }
*****
/
/* Set type      : datar_tabl set
*/
/* Description : Search path for datar_tabl from datar
*/
*****
/
    set datar_tabl_set
    {
        order descending;
        owner datar;
        member datar_tabl by cf;
    }
/* 1000-0-00-00-00 */
}
*****
/
/* End of Schema: Brain Agenda
*/
*****
```

FIG. 17L



RECEIVED

OCT 15 2004

Technology Center 2600

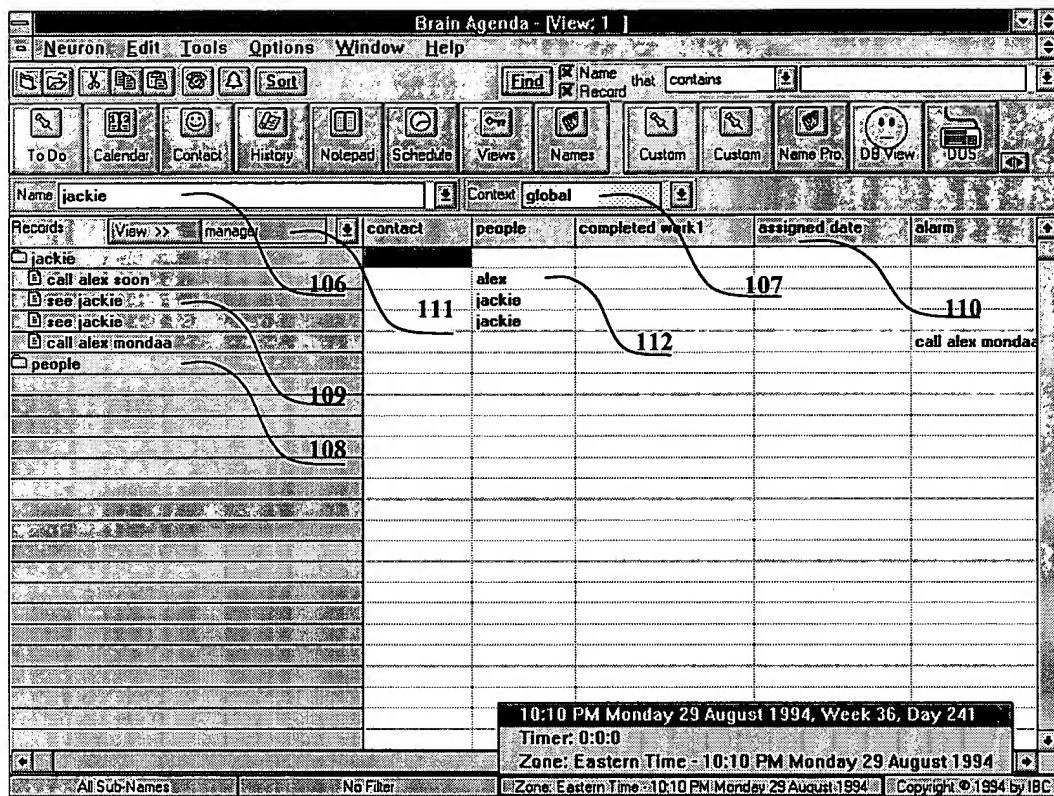


FIG. 18